

SEQUENCE LISTING

<110> HERRING, WILLIAM O.
 HALE, CHAD S.
 JOHNSON, GARY S.

<120> A DNA MARKER FOR CATTLE GROWTH

<130> UVMO:007US

<140> UNKNOWN

-158- 60/218 180

<159> 60/219, 180

160 5

S-1703 Patent In Ver. 2.1

<210> 1

<211> 26

<400> 1

qtqctcta at cttttctqqt accaagg

36

30 <210> 2
<211> 26
<212> DNA
<213> *Bos taurus*

35 <400> 2
cctccccaaa tcaattacat tttctc

36

40 <210> 3
<211> 2869
<212> DNA
<213> Bos taurus

45	ctcgaggatc cttgttcgtg tccatTTAA atatagaagt gtgttcatgt ccatccccaa 60 aaccctaact atctttcct ccagcttcc tcccagcaac cataaattca ttctctaaat 120 ctgtgagttt gttttgttaag taagttcatt tgatcattt ctttttagtt tcacatata 180 agagatgtca tacaatattt cctttcttct gtctgactta cttcaactcg tatgacaatc 240 tcttaggtcat ccgtgtgtgc gcagatgaca ttatTCATT ctttttaatg ggcgagtaat 300 atccagtgtg tgggtgtgtg tgcgtgtgtt tataataca tacccTTCTT atccTTTCCt 360
50	ctgtcaatgg acatttcgtt acttttcagg tttggctgtt gtaaacaata ctgtaatgaa 420 cattgggggtg catgtatcct ttcagtacta gtttttctct gatataatagc ccaagagtga 480 gttagcaggg tctataggtt acttttttAA ggaacctcct tactttttc catagtgatt 540 gtgccaattt acattccac caacactgtt ggaagatgaa tggtcttctt gtattggag 600
55	catggacagg accattggtc atataagaat aataactcaca tagctttgc tgcaaggcttg 660 ggtcatggct gactggtaaa gaatctacct gccaaagcag agacacaggt tcattccctg 720 aqtcqqqaaq atctccTQA qaaggaaatc qtaacccctt gcagtgttct tgccTggaa 780

5	ccccccatgga	caaaggagcc	tggcaggctta	tagcccttg	gtttgc	aaaaaa	tcagacat	840
	ctgaaataact	agcagcaaag	ctttgcgtgc	acagcagctc	aacccacact	cagtgg	tggg	900
	aatcatttgt	atttgtctaa	ctggtgagga	ggctacagga	aatcttgt	ga	ctccagat	960
	aata	gataggta	actaattaaac	atggaaactt	aagtatgtt	ggat	ctccaa	1020
	tgggcactaa	tgttttaat	ttttttttt	cttccaattt	tat	ttttttt	ttaaactt	1080
10	cataattgt	ttagtttgc	caaata	aatgaatccg	ccacagg	tat	gtgttc	1140
	cccatcccga	accctcctcc	ctcctccctc	cccataccat	ccctctgg	cc	ccccagtg	1200
	tccagcccc	agcatccagc	atcatgc	gac	tggcaact	cg	tcc	1260
	atatttcaca	tgtttcattt	ccatttccc	aaatcttccc	accctctcc	tct	cccacag	1320
	agtc	cataa	actgttctat	acatgagt	gtctcg	taca	ccgggtt	1380
	gttaccatct	ttctaaatcc	catatata	cgtagtata	ctgtat	ttt	tcttcc	1440
	ctggcttact	tcactctgt	taatag	cttc	cac	cttac	taa	1500
	aaatgtattt	tttttaatgg	ctgagtaata	ctccattgt	tat	atgttac	acagctt	1560
15	tatccat	tctgtgtat	gacatctt	ttgcttccat	gtc	ctgg	cta	1620
	tgctgcgat	aacattgggg	tacacgt	tcttcc	ctg	gttcc	cagtgt	1680
	gccc	agcagt	ggggttgc	gatcata	tcc	agttttt	taaggaa	1740
	ccacactgtt	ctccatag	gctgtact	ttgcatt	cacca	acagt	gt	1800
	tcccttct	ccacacc	tccagcattt	attattt	gact	tttgg	tgc	1860
20	tctgact	gtgaaatgg	ac	ctcat	gtt	ttgatt	gcatttct	gataat
	gatgtt	gagc	atctt	ttc	tgt	ctttttt	ggagaaat	1980
	ctat	ttttagt	cttggcc	ttttt	ttt	tttctt	gtt	2040
	aggagtt	gttat	tttt	tttgc	tt	tttctt	tg	2100
	ttctcc	catt	ctgagg	tcc	ttt	tttgc	tgtc	2160
25	ctttt	taagg	tttgc	tttgc	ttt	tttgc	tttgc	2220
	gg	gggt	ctc	ccaga	ttt	tttgc	tttgc	2280
	actt	gctata	ctctgg	ttggat	tttgc	tttgc	tttgc	2340
	ggag	cttct	tctt	tttgc	tttgc	tttgc	tttgc	2400
	tc	agcc	tc	tttgc	tttgc	tttgc	tttgc	2460
30	gct	ggcc	ccca	tttgc	tttgc	tttgc	tttgc	2520
	tggc	caga	acc	tttgc	tttgc	tttgc	tttgc	2580
	tgct	cta	atc	tttgc	tttgc	tttgc	tttgc	2640
	tgt	gt	act	tttgc	tttgc	tttgc	tttgc	2700
	agg	gg	ggg	tttgc	tttgc	tttgc	tttgc	2760
35	ttc	accat	at	tttgc	tttgc	tttgc	tttgc	2820
	tg	cggt	tc	ttccat	tttgc	tttgc	tttgc	2869

<210> 4

<211> 540

40 <212> DNA

<213> Bos taurus

<400> 4

45	ttagattccg	acaactctcc	ctgtcttcag	ccctctggc	gtatggtctt	tgtcaattc	60
	taatacgtgg	ccttctcagt	tggctggct	ggcccccattcc	tgatgagcct	tgtgagcctc	120
	cagccccaggc	ctggccttca	cttcagttgg	cagaaccagg	ccctgggcaa	aggtcgaaaa	180
	gttcgttatg	tgaggcaatg	cgttgtgtgc	tctaatcttt	tctggtacca	ggttgtgtgt	240
	gtgtgtgtgt	gtgtgtgtgt	gtgtgtgtgt	gtgactggga	gggaggaaga	gagagaaaaat	300
50	gtaattgatt	tggggaggat	ttggggaaagg	tttatataagg	aaagcagcaa	gaccaagaat	360
	ctactgccaa	gcggtgacca	agaaaacgttc	accatattcc	tcctccaacc	ccgcactgtt	420
	tgccaaactct	taaccaaatt	agcatagtgc	ggtctgttcc	catacatgac	tgaatgaata	480
	aggaagtta	gacgtccttg	ccataaaagcc	tggaggaacc	atacggaaaat	ccagcctctg	540

55

<210> 5

<211> 522
<212> DNA
<213> Bos indicus

5 <400> 5
ttagattccg ataaactctcc ctgtcttcag cccctctggc gtatggtctt tgtcaaattc 60
taatacgtgg ccttctcagt tggctctggct ggctccatcc tcatgagcct tggagcctc 120
cagccccagggc ctggccttca cttcagttgg cagaacccag ccctgggcaa aggtcgggggg 180
gttcgttatg tgaggcaatg cgttgtgtgc tctaatttt tctggatcca ggttgggtgt 240
10 gtgtgtgtgt gtgtgactgg gaggaggaa gagagagaaa atgttaattgtt tttggggagg 300
atttggggaa ggtttatata gaaaaggcagc aagaccaaga atctactgccc aagcgggtgac 360
caagaaacgt tcaccatatt cctcctccaa ccccgcaactg tttgccaact cttaacccaaa 420
ttagcatagt gcggctctgct tccatacatg actgaatgaa taaggaagtt taaacgtcct 480
tgccataaaag cctggaggaa ccatacgaaa atccagcctc tg 522

15

SEQUENCE LISTING

11017 U.S. PTO
09/910428
07/19/01

<110> HERRING, WILLIAM O.
HALE, CHAD S.
JOHNSON, GARY S.

<120> A DNA MARKER FOR CATTLE GROWTH

<130> UVMO:007US

<140> UNKNOWN
<141> 2001-07-19

<150> 60/219,180
<151> 2000-07-19

<160> 5

<170> PatentIn Ver. 2.1

<210> 1
<211> 26
<212> DNA
<213> Bos taurus

<400> 1
gtgctctaat cttttctgg accagg

26

<210> 2
<211> 26
<212> DNA
<213> Bos taurus

<400> 2
cctccccaaa tcaattacat tttctc

26

<210> 3
<211> 2869
<212> DNA
<213> Bos taurus

<400> 3
ctcgaggatc cttgttcgtg tccatTTaa atatagaagt gtgttcatgt ccatccccaa 60
aaccctaact atctcttcct ccagctttcc tcccagcaac cataaaattca ttctctaaat 120
ctgtgagtct gttttgtaaag taagttcatt tttatcattt ctttttagtt tccacatata 180
agagatgtca tacaatattt cctttctct gtctgactta cttcaacttag tatgacaatc 240
tctaggtcat ccgtgttgct gcagatgaca ttatttcatt ctttttaatg gccgagtaat 300
atccagtgtg tttgtgtgtg tgcgtgtgtt tatataaca tactttcttt atccttcct 360
ctgtcaatgg acattcaggatc actttcaggatc cttggctgtt gtaaacaata ctgtaatgaa 420
cattgggggtg catgtatcct ttcaacttca gttttctct gatataatgc ccaagagtga 480
gttagcaggg tctataggtt actttttaa ggaacctcct tacttttttc catagtgtt 540
gtgccaattt acattccac caacactgtt ggaagatgaa tggtcttcattt gtattggag 600
catggacagg accatggtc atataagaat aataactcaca tagtttgca tgcaggctt 660

ggtcatggct qactggtaaa gaatctacct gccaaagcag agacacaggt tcattccctg 720
agtccggaaag atctcctgga gaaggaaatc gtaacccctc gcagtgttct tgccctggaa 780
accccatgga caaaggagcc tggcaggcta tagcccttgg gtttgc当地 tcagacatga 840
ctgaataact agcagcaaag ctttgcgtgc acagcagctc aacccacact cagtggtggg 900
aatcattgtg attgttctaa ctggtgagga ggctacagga aatctggta agctccagat 960
aatagccact gataggtact ataattaaac atgaaactt aagtatgtt ggatctccaa 1020
tgggactaa tggtaat tttttttt cttccaattt tattttattt ttaaacttta 1080
cataattgta ttatgttgc caaatatcaa aatgaatccg ccacaggat acatgtgtc 1140
cccatcccgaa accctcctcc ctcctccctc cccataccat ccctctggc cgcccagtgc 1200
tccagccccca agcatccagc atcatgcac gaacctggac tggcaactcg ttccatcatg 1260
atatttcaca tggtaatcc catttctccca aaatctccc accctctccc tctcccacag 1320
agtccataag actgttctat acatgaggtt ctctttgtc gtctcgatc ccgggttatt 1380
gttaccatct ttctaaatcc catatatacg cgtagtata ctgtattttt gttttccctt 1440
ctggcttact tcactctgtt taataggctc cagtttcatc caccttatttta gaactgattc 1500
aaatgtatttcc ttttaatgg ctgagtaata ctccattgtt tataatgtacc acagcttct 1560
tatccattca tctgtgtat gacatctagg ttgcttccat gtcctggctt ttataaaacag 1620
tgctgcgtt aacattgggg tacacgtgtc tctttccctt ctggtttccctt cagtggttat 1680
gcccagcagt ggggttgcgtt gatcataagg cagtttctatt tccagttttt taaggaatct 1740
ccacactgtt ctccatagtg gctgtacttag tttgcattcc caccacagt gtaagagggt 1800
tccctttctt ccacaccctc tccagcattt attatttgc gacttttggta tcgcagccaa 1860
tctgactgtt gtgaaatggt acctcatatg ggtttgattt gcatttctct gataatgagt 1920
gatgttgagc atctttcat gttttgtt gccatctgtt tgcattttt ggagaaatgt 1980
ctatattatcc ttttggccca tttttgtt gggcgttta tttttctggta gttgagctgt 2040
aggagttgt tttttttt tgagattatg tggatgttgcg ttgcttccatt tgctattttt 2100
ttctccctt ctgaaggctg tcttttccattt tggctaatag tttcctttgtt tgcaggaaag 2160
cttttaaggt taatttagtcc ccatttgcattt tttttgtt tttttccaa tattctggaa 2220
gggtgggtctc ccagaatgtt taaaatttta attgttccattt cttcattttaa caaatattcc 2280
acttgctata ctctgggttc ttggatctt tcatggat tccagcacct ctgcctctt 2340
ggagcttctt tccttgaact ctttagctgtt gggatttagat tccgacaact ctccctgtct 2400
tcagcccccc tggcgtatgg tctttgttcaatttcaatc gggccttctc agttgggtctg 2460
gttggccca tcctgtatgag ctttgcgttcc gtcctggct tcacttcagt 2520
tggcagaacc cagccctggg caaagggtcg ggggttgcgtt atgtgaggca atgcgttgc 2580
tgctctaaatc ttttctggta ccagggtgtt tggatgttgcgtt tggatgttgcgtt 2640
tggatgtactg ggaggggagga agagagagaa aatgttatttgcgtt gttggggag gatttggggaa 2700
aggtttatat agggaaagcag caagaccaag aatctactgc caagcggtga ccaagaaacg 2760
ttcaccatat tcctcccttca acccccgact gtttgcac tcttaaccat attagcatag 2820
tgcggctgc ttccatacat gactgaatga ataaggaatg ttagacgtc 2869

<210> 4
<211> 540
<212> DNA
<213> Bos taurus

<400> 4
tttagattccg acaactctcc ctgtcttcag cccctctggc gtatggtctt tgtcaaattc 60
taatacgtgg ctttcctcgtt tggatgttgc gggccatcc tcatggatctc tgcgttgc 120
cagccccaggc ctggccttca cttcgttgg cagaacccag ccctggccaa aggtcggggg 180
gttgcgttgc tggatgttgcgtt cttcgttgc tcatggatctc tgcgttgc 240
gttgcgttgcgtt tggatgttgcgtt gggatgttgcgtt gggatgttgcgtt 300
gttgcgttgcgtt tggatgttgcgtt gggatgttgcgtt gggatgttgcgtt 360
ctactgccttca gggatgttgcgtt gggatgttgcgtt gggatgttgcgtt 420
tgcgttgcgtt tggatgttgcgtt gggatgttgcgtt gggatgttgcgtt 480
aggaaatggat gggatgttgcgtt gggatgttgcgtt gggatgttgcgtt 540

<210> 5
<211> 522
<212> DNA
<213> Bos indicus

<400> 5
ttagattccg ataactctcc ctgtcttcag cccctctggc gtatggtctt tgtcaaattc 60
taatacgtgg ctttctcagt tggtctggct ggctccatcc tgatgagcct tgtgagcctc 120
cagcccaggc ctggccttca cttcagttgg cagaacccag ccctgggcaa aggtcgggggg 180
gttcgttatg tgaggcaatg cgttgtgtc tctaatttt tctggtagcca gtttgtgtgt 240
gtgtgtgtgt gtgtgactgg gagggaggaa gagagagaaa atgttaattga tttggggagg 300
atttggggaa gtttatata ggaaagcagc aagaccaaga atctactgcc aagcggtgac 360
caagaaacgt tcaccatatt ctcctccaa cccgcactg tttgccaact cttaaccaaa 420
ttagcatagt gcggcttgct tccatacatg actgaatgaa taaggaagtt taaacgtcct 480
tgccataaag cctggaggaa ccatacggaaa atccagcctc tg 522